



CHAPTER 3

**PART 2 COMMAND & CONTROL (C2) /
INTELLIGENCE, SURVEILLANCE, AND
RECONNAISSANCE (ISR)**

INTRODUCTION

Leading-edge technologies and systems are dramatically increasing the tactical “reach” of the Individual Marine, which is no longer limited by the range of his rifle or the distance he can throw a hand grenade. Indeed, operations at the squad level and Individual Marine—the “pointed end of the spear”—can have now far-reaching operational-level if not strategic impacts. The need is thus growing for enhanced command-and-control capabilities, which include communications, intelligence, surveillance and reconnaissance, to network operational relationships from the headquarters to the Individual Marine on the ground or in the air. For example, we are fielding additional equipment to infantry battalions to enable Individual Marines to fight and win on the distributed and non-linear battlefield.

The Marine Corps’ Command & Control (C2) Harmonization Strategy incorporates joint integrating concepts and C2 mandates and articulates our goal of delivering an end-to-end, fully integrated, cross-functional capability to include forward-deployed and reach-back functions. The strategy’s goal is a seamless capability that crosses war fighting functions and supports the Individual Marine from the supporting establishment at home to our Marines in contact with the enemy, taking the best of emerging capabilities and joint requirements to build a single solution. Our C2 Harmonization

Strategy will also increase our capability to train our staffs through MAGTF Integrated System Training Centers.

A critical first step in this direction is the ongoing development of the Common Aviation Command and Control System (CAC2S). CAC2S fuses data from sensors, weapons systems and other C2 systems into a single integrated display. It allows rapid flexible operations in a common, modular and scalable design by reducing the current stovepipe systems into one hardware/software solution with streamlined equipment training. CAC2S will enable Marine Air Ground Task Force (MAGTF) commanders to control the timing of organic, joint, or coalition air power, assault supports and Intelligence, Surveillance, and Reconnaissance (ISR) in their battlespace while operating within a joint task force

The Marine Corps continues to increase its ISR capabilities through the use of an enterprise approach known as the Marine Corps ISR Enterprise (MCISR-E)—resulting in a fully integrated architecture compliant with joint standards

for data interoperability. MCISR-E will provide networked combat information and intelligence down to the squad level across the range of military operations. To ensure Marines have access to these new capabilities, our MAGTF C2 systems feed combat operation centers with information from wide field of view persistent surveillance systems such as Angel Fire, traditional ISR systems such as our family of Unmanned Aircraft Systems and unattended ground sensors, and non-traditional collection assets such as Ground-Based Operational Surveillance System.

The programs discussed in this section will enable MAGTF commanders to exercise effective command and control and conduct ISR operations. In addition, these programs support the ability of MAGTFs to participate in or lead joint and multinational operations. Importantly, they will ensure that Individual Marines understand their commanders' intent and can carry out complex operations—in peacetime, crisis and war—that safeguard vital U.S. interests, citizens and friends.